



Department of Industrial Engineering and Management
Khulna University of Engineering & Technology
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Dr. Md. Rafiquzzaman
Professor

Research Area
Education

Biography

Currently I am serving as Professor in the Department of Industrial Engineering and Management at Khulna University of Engineering & Technology (KUET). My research interest includes- Manufacturing Technology, Industry 4.0, Composite Materials, Supply chain Management, TPM. Teaching area includes- Manufacturing Technology, CIM, Product Design, Engineering Metallurgy, Engineering materials, Solid mechanics etc.

h.D. In Production Engineering

Saitama University, Saitama, Japan (2008)

Master of Science in Mechanical Engineering

Saitama University, Saitama, Japan (2005)

Bachelor of Science in Mechanical Engineering

Bangladesh Institute of Technology, Rajshahi, Bangladesh (2001)

Service Records

- **R&D Engineer (Mechanical)**

Sanko Machinery Co., Ltd. From 01-01-1970 to 01-01-1970

Responsibility: Duties and responsibilities: 1. Conduct research into the feasibility, design, operation and performance of mechanisms, components and systems 2. Design machines, components, tools, fixtures and equipment 3. Assist in preparing conventional and computer-assisted design (CAD) engineering designs, drawings and specifications 4. Read and interpret blueprints, sketches and diagrams to determine assembly operations 5. Install major components such as gears, pumps, motors or hydraulic assemblies 6. Assemble, fit and install prefabricated parts to form subassemblies or finish products using hand and power tools 7. Position, align and adjust parts for proper fit and assembly and connect cables, tubes and wires 8. Check mechanical assemblies and subassemblies for alignment and proper functioning 9. Test and check electrical assemblies and wiring for proper connections

- **Manufacturing Engineer**

Sanko Machinery Co., Ltd. From 01-01-1970 to 01-01-1970

- **Post-doctoral Research Associate**

Department/Section: Department of Mechanical Engineering

National Chung Cheng University From 01-01-1970 to 01-01-1970

Working Area: research duties

Responsibility: Responsible for carried out research duties. Additionally, as a post-doctoral research fellow I have been assist and manage 1 PhD student 1 postgraduate student.

- **Post-doctoral Research Fellow**

Department/Section: Department of Mechanical and Materials Engineering

Universiti Kebangsaan Malaysia From 01-01-1970 to 01-01-1970

Working Area: research duties

Responsibility: Responsible for carried out research duties. Additionally, as a post-doctoral research fellow I have been assist and manage 1 PhD student 2 postgraduate and 3 undergraduate students and I was the leader of our team

Research Interest

Publication

Books

Journals

27. , "An Experimental and Numerical Approach of Polymer Composites Based on Jute-Bamboo Natural Fiber," **Mechanics of Advanced Composite Structures** , Semnan University, vol. 9, no.105, pp.113, 2022 .

27. P. K. Mondal, M. Rafiquzzaman¹ and a. Z. Rahman, "A CONSTRUCTIVE ALGORITHM FOR CELL FORMATION IN CELLULAR MANUFACTURING SYSTEMS CONSIDERING CELL LOAD VARIATIONS," **Journal of Manufacturing Technology Research** , Nova Science Publishers, Inc., vol. 13, no.3-4, pp.145-161, 2021 .

25. M. Badiuzzaman, M. Rafiquzzaman, M. I. I. Rabby and M. M. Rahman, "The Latent Digital Divide and Its Drivers in E-Learning among Bangladeshi Students during the COVID-19 Pandemic," **Information** , vol. 12, no.8, pp.287, 2021 .

25. , "Automation and Robotics: A Review of Potential Threat on Unskilled and Lower Skilled Labour Unemployment in Highly Populated Countries," **International Business Management** , vol. 14, no.1, pp.16-24, 2020 .

23. B. a. Rafiquzzaman and , "Develop an Online Based Virtual Office Management Software," **International Journal of Soft Computing** , Medwell Publication, UAE, vol. Vol. 14 , pp.pp 11-27, 2019 .

Conference

14. , "Improvement of Health Care System by Using Lean Tools: A Case Study," **March 2021 IOP Conference Series Materials Science and Engineering 1092(1):012005**.

13. , "Design and Fabrication of Efficient Electromagnetic Braking System for Bangladesh Railway: A Prototype Approach," **Conference: 11th Annual International Conference on Industrial Engineering and Operations Management, Singapore, March 7-11, 2021 At:**

Singapore.

12. D. A. Poppy¹, M. R. S. K. Shashi¹, M. M. N. haider¹ and * . * , "Total Productive Maintenance: A Case Study in a Jute Industry," ***International Conference on Mechanical, Industrial and Energy Engineering 2020 19-21 December, 2020, Khulna, BANGLADESH.***
11. M. M. N. haider, * . * and M. Rafiqzaman, "Improvement of Overall Equipment Effectiveness through Total Productive Maintenance: A Case Study," ***International Conference on Mechanical, Industrial and Energy Engineering 2020 19-21 December, 2020, Khulna, BANGLADESH.***
10. M. Badiuzzaman and M. Rafiqzaman, "A New Concept in Modern Industry Sector; â€œVirtual Industry Modelâ€," ***International Conference on Mechanical, Industrial and Energy Engineering 2014***, 2014 .